

A NEW SPECIES OF *FILCHNERELLA* KARNY FROM CHINA (ORTHOPTERA, ACRIDOIDEA, PAMPHAGIDAE)

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Abstract A new species of the genus *Filchnerella* Karny, i. e. *F. dingxiensis* sp. nov., is described from Gansu, China. A key to 18 species of the genus *Filchnerella* from China is given. The type specimens are deposited in the Museum of Hebei University.

Key words Orthoptera, Pamphagidae, *Filchnerella*, new species, China.

Introduction

The genus *Filchnerella* Karny was erected in 1908, belonging to subfamily Prionotropisinae, family Pamphagidae, superfamily Acridoidea (Zhang *et al.*, 2003). It is similar to *Pseudotmethis* B. -Bienko, 1949, but differs from the latter: fastigium near right angle, lateral facial carinae not elevated into lamellate, invisible in dorsal view, tegmina of male shorter than pronotum, if longer than pronotum, distinctly narrowed apically, widened in the middle. *Filchnerella* has 17 known species distributed mainly in Northwest China, such as Gansu, Qinghai, Ningxia and the west of Neimenggu (Karny, 1908; Rammé, 1931; Bei-Bienko, 1948; Liu, 1982; Zheng & Gow, 1981; Xi *et al.*, 1984; Yin, 1984; Xi & Zheng, 1985; Zheng & Xi, 1985; Zheng & Fu, 1989; Zheng, 1992; Huo, 1994; Li *et al.*, 2009). Bei-Bienko & Mishchenko (1951) recorded 3 species; Zheng (1985) recorded 9 species, Zheng & Xi (1985) recorded 10 species, Otte (1994) recorded 11 species, Yin *et al.* (1996) recorded 12 species, Eades, D. C. & Otte, D. (2010) recorded 17 species, all of them recorded *F. tiensuensis* Chang (Chang *et al.*, 1978); Zheng (1993) recorded 15 species, Xia *et al.*, described 10 species, both of them concluded that the species *F. tiensuensis* Chang is a synonym of *Eotmethis tiensuensis* (Chang) (Zheng, 1993; Xia *et al.*, 1994).

While identifying the grasshopper specimens collected from Gansu, China in July 2006, a new species of genus *Filchnerella* Karny, 1908, i. e. *F. dingxiensis* sp. nov. is found and is described below. A key to 18 species of the genus *Filchnerella* is given. The type specimens are deposited in Museum of Hebei University.

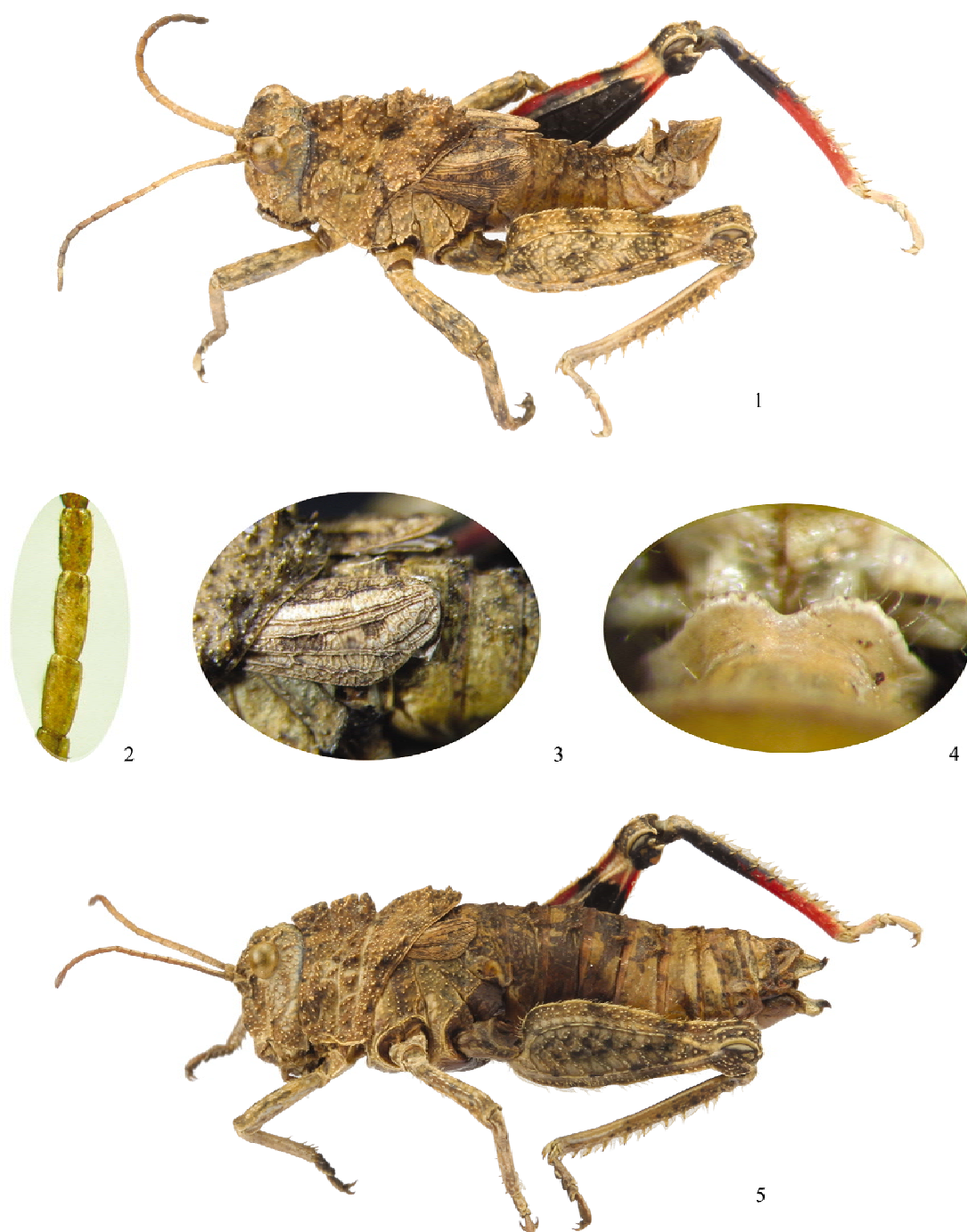
Filchnerella dingxiensis sp. nov. (Figs 1 – 5)

Holotype ♂, Gansu, Dingxi (35° 57' N, 104° 57' E; alt. 1 700 – 2 580 m), 20 July 2006, ZHANG Dao-Chuan and ZHI Yong-Chao. Paratypes: 4 ♂♂, 4 ♀♀, same date as that of holotype.

Description. Male (Figs 1 – 4). Body medium-sized, with thickset hairs, especially on legs. Vertex short and wide, width between two eyes is about 4 times as wide as frontal ridge between bases of antennae; lateral aspects of vertex edged by distinct carina that extend to eyes; fastigial furrow present, dorsal side of head depressed, with granular and club-like projection; preocellar foveolae irregular. Frontal ridge distinct, with a groove along its whole length, between the bases of antennae slightly projecting forward, constructed distinctly under median ocellus, widened gently downwards, widen distinctly on base of labrum. Lateral facial carinae distinct, but invisible in dorsal view. Eyes larger, near circle. Antennae long, 18 segments, length nearly equal to total length of head and pronotum, length of a segment 2.5 times its width in the middle part (Fig. 2). Pronotum rough, with short subuliform projection, anterior and posterior margin angled protruding; median carina elevated into lamellate, strongly incised on the posterior transverse groove; metazona almost equal in length to prozona, median carina incised by the 2 transverse grooves in prozona, median carina of metazona arc-like raised. Prosternum with a strong lamellate process on anterior margin, having obvious and shallow emarginate in the middle (Fig. 4). Interspace of mesosternum lateral lobes trapezoid, wider, the narrowest part wider than the broadest part

This study was supported by the National Natural Science Foundation of China (30770263), the Research Foundation of Hebei Education Department (2009411) and the Doctor Research Foundation of Hebei University (Y2007090).

Received 17 Sep. 2010, accepted 23 Feb. 2011.



Figs 1 - 5. *Filchnerella dingxiensis* sp. nov. 1. Body lateral view (♂). 2. Segments of antennae (♂). 3. Tegmina (♂). 4. Prosternum (♂). 5. Body lateral view (♀).

of lateral lobes. Tegmina separated distinctly on the dorsum, tegmina and hindwings short, extending over the posterior margin of first abdominal tergite distinctly (Fig. 3). Hind femur wide and compressed, length is about 3 times the width of broadest part; upper median carina of hind femur serrated, with arc-like concave near apex of knee. Hind tibia with apical spine on inner and outer side, with 10 spines on external side and 8 spines on internal side (including apical spine). Arolium between claws of tarsus larger,

its apex reaching to the middle of claws. Tympanum organ developed, tympanal aperture expanded, tympanic flap smaller. Krause's organ near oblong, with thinly rugose on surface. Abdomen dorsally with 3 rows of tubercles, middle row plate-like, distinct especially. Epiproct near tongue-like, with longitudinal groove in the middle. Cercus long conical, curved inward. Subgenital plate short conical, apex acute.

Female (Fig. 5). Body thick and larger than male. Vertex extremely wider, the width between two

eyes is about 4.5 times as wide as frontal ridge between bases of antennae. Length of antennae almost equal to the length of head and pronotum together. Tegmina lobi-form, separated widely dorsum, apex extending over anterior margin of first abdominal tergite, distinctly shorter than metazon of pronotum. Cercus short conical. Subgenital plate project at an angle in the middle of posterior margin. Ovipositor valve short, hooked, apex acute angle, outer margin of lower valve with concave near the apex.

Coloration. Body filemot. Inner side of hind femur dark blue, red in pregenicular and upper margin, inner knee lobe black. Inner side of hind tibia

red on the apical half and dark blue on the basal half.

Measurements. Length of body: ♂ 17.5 – 18.3 mm; ♀ 25.2 – 28.1 mm. Length of pronotum: ♂ 6.8 – 7.4 mm; ♀ 8.1 – 10.0 mm. Length of tegmina: ♂ 4.0 – 4.7 mm; ♀ 2.9 – 3.5 mm. Length of hind femur: ♂ 8.9 – 9.8 mm; ♀ 12.0 – 13.0 mm.

Diagnosis. The new species is similar to *Filchnerella pamphagoides* Karny, 1908 and *Filchnerella micropenna* Zheng et Xi, 1985. The major differences are listed in Table 1.

Etymology. The species name is derived from the type locality Dingxi.

Table 1. Comparison of *F. pamphagoides* Karny, 1908, *F. dingxiensis* sp. nov. and *F. micropenna* Zheng et Xi, 1985.

Characters	<i>Filchnerella pamphagoides</i> Karny, 1908	<i>Filchnerella dingxiensis</i> sp. nov.	<i>Filchnerella micropenna</i> Zheng et Xi, 1985
Tegmina	Contiguous on the dorsum in male or lateral in female, extending over the posterior margin of first abdominal tergite distinctly	Separated distinctly on the dorsum in both sexes, extending over the posterior margin of first abdominal tergite distinctly	Separated on the dorsum in both sexes, not reaching the anterior margin of first abdominal tergite
Prosternum	Anterior margin with deep emarginate in the middle	Anterior margin with obvious and shallow emarginate in the middle	Anterior margin with slight emarginate in the middle
A segment of antennae in the middle part	Length 2.0 times of width	Length 2.5 times of width	Length 1.6 – 1.8 times of width
Hind tibia	Inner side basal half blue-black and apical half red	Inner side basal half blue-black and apical half red	Inner side base and end red, middle part blue-black

Key to the species of *Filchnerella* Karny, 1908 from China.

- 1 (6) Tegmina strongly abbreviated, their length distinctly shorter than the length of pronotum in male or metazon in female
- 2 (3) The base and end of hind tibia red, middle part blue-black on inner side 1. *F. micropenna* Zheng et Xi, 1985
- 3 (2) Hind tibia basal half blue black, and the apical half red on inner side
- 4 (5) Tegmina overlapping on the dorsum in male or lateral in female. Prosternum with a lamellate process on anterior margin, having deep emarginate in the middle. Length of a segment 2.0 times of width in the middle part of antennae 2. *F. pamphagoides* Karny, 1908
- 5 (4) Tegmina in both sexes very widely separated on the dorsum. Prosternum with a lamellate process on anterior margin, having obvious and shallow emarginate in the middle. Length of a segment 2.5 times of width in the middle part of antennae ... 3. *F. dingxiensis* sp. nov.
- 6 (1) Tegmina developed or very developed, their length distinctly greater than the length of pronotum in male or metazon in female
- 7 (32) Tegmina developed, their apex distinctly not reaching the end of hind femora in male, and not reaching, reaching or slightly extending beyond the posterior margin of the second abdominal tergite, their length distinctly shorter than the length of pronotum in female
- 8 (21) Hind tibia red or black on inner side
- 9 (20) Hind tibia all red on inner side
- 10 (15) Inner side of hind femur yellowish-brown in pregenicular
- 11 (12) Inner side of hind tibia bright-red, below margin of inner side of hind femur red 4. *F. zhengi* Huo, 1994
- 12 (11) Inner side of hind tibia dark-red, below margin of inner side of hind femur not red
- 13 (14) Inner side of hind tibia without black in the basal half, body larger 5. *F. lanchowensis* Zheng, 1981
- 14 (13) Inner side of hind tibia mixed black in the basal half, body smaller 6. *F. brachyptera* Zheng, 1992
- 15 (10) Inner side of hind femur not yellowish-brown in pregenicular
- 16 (19) Inner side of hind femur red in pregenicular
- 17 (18) Hind tibia bright-red on inner side, tegmina shorter in male, their apex only reaching the posterior margin of the sixth abdominal tergite; base of hind wings yellow, with wide black band 7. *F. yongdengensis* Xi et Zheng, 1984
- 18 (17) Hind tibia red on inner side, sometimes slightly painting black on the middle. Tegmina longer in male, their apex reaching to or extending beyond the base of epiproct; base of wings transparent, with thin black band 8. *F. gansuensis* Xi et Zheng, 1985
- 19 (16) Inner side of hind femur black, without red ring in pregenicular. Dark band of wings in male undeveloped, which lacking behind the third anal field 9. *F. rufitibia* Yin, 1984
- 20 (9) Hind tibia black on inner side ... 10. *F. migratibia* Zheng, 1992
- 21 (8) Inner side of hind tibia red on the base and end, blue on the middle
- 22 (29) Tegmina longer in male, their apex distinctly reaching, not reaching the base of epiproct
- 23 (26) Inner side of hind femora blue-black, red in the distal fourth
- 24 (25) Lower area of hind femur on inner side all red. Body smaller. The width of vertex in female between the eyes was about 3 times as wide as width of frontal ridge between the bases of the antennae 11. *F. beichi* Ramme, 1931
- 25 (24) Lower area of hind femur on inner side red in apical half only. Body larger. The width of vertex in female between the eyes was about 6 times as wide as width of frontal ridge between the bases of the antennae 12. *F. amplipecta* Li, Zhang et Yin, 2009
- 26 (23) Inner side of hind femora blue or black, yellow or bright-yellow in pregenicular
- 27 (28) Inner side of hind femora blue-black, yellow in pregenicular, without red on lower margin 13. *F. kukunoris* Bei-Bienko, 1948
- 28 (27) Inner side of hind femora black, bright-yellow in pregenicular,

- with slightly red on lower margin
 14. *F. tenggerensis* Zheng et Fu, 1989
 29 (22) Tegmina shorter, their apex reaching the third or fourth abdominal tergite
 30 (31) Inner side of hind femora bright-yellow in pregenicular, with all red on lower margin 15. *F. rubimargina* Zheng, 1992
 31 (30) Inner side of hind femora yellow in pregenicular, with red only on lower margin of yellow part in pregenicular
 16. *F. helanshanensis* Zheng, 1992
 32 (7) Tegmina very developed, extending beyond the end of hind femora in male and reaching to or extending beyond the posterior margin of their third abdominal tergite in female and their length equal to the length of pronotum
 33 (34) Tegmina strongly extending beyond the end of hind femora in male, tegmina overlapping dorsum in female
 17. *F. sunanensis* Liu, 1982
 34 (33) Tegmina slightly extending beyond the end of hind femora in male, tegmina separated dorsum in female, not overlapping
 18. *F. qilianshanensis* Xi et Zheng, 1984

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中国短鼻蝗属一新种 (直翅目, 蝗总科, 癩蝗科)

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摘要 记述短鼻蝗属 1 新种, 定西短鼻蝗 *Filchnerella dingxiensis* sp. nov., 编制了该属 18 种的检索表。模式标本保存于河北大学博物馆。

定西短鼻蝗, 新种 *Filchnerella dingxiensis* sp. nov. (图 1~5)

新种与癩短鼻蝗 *Filchnerella pamphagides* Karny, 1908 近似, 区别特征为: 1) 雄性前翅在背部分开; 2) 前胸腹板前缘片状隆起中部具浅凹陷; 3) 触角中段 1 节之长为宽的 2.5 倍。

关键词 直翅目, 癩蝗科, 短鼻蝗属, 新种, 中国。

中图分类号 Q969.265.1

新种与小翅短鼻蝗 *Filchnerella micropenna* Zheng et Xi, 1985 也近似, 其不同之处为: 1) 前翅较长, 明显超出腹部第 1 节背板的后缘; 2) 后足胫节内侧基半部蓝黑色, 端半部红色。

正模 ♂, 副模: 4 ♂♂, 4 ♀♀, 甘肃定西, 2006-07-24, 张道川, 智永超采。

词源: 新种种名源自模式标本产地定西。

动物分类学报

DONGWU FENLEI XUEBAO

第36卷 第2期

2011年4月

目次

中国六盘山园蛛属和吉园蛛属二新种记述(蜘蛛目,园蛛科)(英文)	郭胜涛	张 锋	朱明生(213)
中国云南巴韦蛛属一新种(蜘蛛目,跳蛛科)(英文)	雷 鹤	彭贤锦(218)	
刺触螨属二新种记述(蜱螨亚纲,水螨群,刺触螨科)(英文)	张 旭	金道超	郭建军(221)
中国短鼻蝗属一新种(直翅目,蝗总科,癩蝗科)(英文)	张道川	肖建韬	智永超(227)
印度尖瘤蜱属一新种(弹尾纲,长角蜱科)(英文)	潘志祥	CHATTERJEE Tapas	张 峰(231)
中国西北地区维特疣蜱属一新种(弹尾纲,疣蜱科)(英文)	姜吉刚	尹文英(237)	
中国新纪录——拟跷蜡属及一新种记述(半翅目,异翅亚目,跷蜡科,跷蜡族)(英文)	蔡 波	党 凯	卜文俊(241)
中国陕西诺蠅种团(禳翅目,卷蠅科)一新种记述(英文)	李卫海	孔凡彬	杨 定(246)
中国刺蛾科六新种和十二新纪录种(鳞翅目,斑蛾总科)(英文)			武春生(249)
中国脊额细蜂属分类研究(膜翅目,细蜂科)(英文)	刘经贤	何俊华	许再福(257)
神农架钩瓣叶蜂属二新种(膜翅目,叶蜂科)(英文)	赵 赴	魏美才(264)	
新疆米短柄泥蜂属二新种记述(膜翅目,蜜蜂总科,方头泥蜂科)(英文)	马 丽	陈学新	李 强(268)
中国距水虻属四新种(双翅目,水虻科)(英文)	李 竹	张婷婷	杨 定(273)
中国柱角水虻亚科三新种(双翅目,水虻科)(英文)	齐 枫	张婷婷	杨 定(278)
中国台湾星水虻属二新种(双翅目,水虻科)(英文)	李 竹	张婷婷	杨 定(282)
中国噪寄蝇属二新种及三新纪录种(双翅目,寄蝇科)(英文)	张春田	周媛烨(285)	
辽宁铁刹山寄蝇科一新种及三中国新纪录种(双翅目,寄蝇科)(英文)	张春田	付 超(293)	
中国草种蝇属二新种记述(双翅目,花蝇科)(英文)	张旭凤	范滋德	朱卫兵(297)
中国贵州妙蝇属(双翅目,蝇科)研究及净妙蝇群五新种记述(英文)			魏濂麟(301)
中国云南锯果实蝇亚属三新种记述(双翅目,实蝇科)(英文)	余 慧	白永华	何万忠
中国锯果实蝇亚属分类研究及一新种记述(双翅目,实蝇科)(英文)	张南南	陈家骅	刘忠善
中国刺蛾属鱼类分类整理及二新种和一新纪录(鲈形目,刺蛾科)(英文)	任桂静	刘 奇	高天翔
基于线粒体DNA序列探讨斑头鱼分类地位	李 锐	闫喜中	柳本卓(332)
星豹蛛不同地理种群CO I基因序列差异初步分析	郭文英	黄晓磊	任炳忠
大豆蚜线粒体基因组序列测定与分析	庆 宁	马天峰	梁晓旭
华南地区黑眶蟾蜍的遗传变异和地理分化	林弘都	卢文华	盐司槽(356)
中国尾蛱蝶属雄性外生殖器比较形态学研究(鳞翅目,蛱蝶科,蛱蝶亚科)	田 明	范 彪	陈元晓(377)
云南管螺属一新种记述(肺螺亚纲,柄眼目,烟管螺科)	任宏涛	宋克林	周卫川(380)
中国婴螺属一新种记述(腹足纲,肺螺亚纲,柄眼目,艾纳螺科)	郑哲民	曾慧花	欧晓红(383)
中国悠背蚱属的分类研究及二新种记述(直翅目,蚱科)	郑哲民	董佳佳	许升全(392)
新疆牧草蝗属一新种(直翅目,网翅蝗科)	高文韬	孟庆繁	阎明真(400)
中国竹类粉蚧一新属一新种(半翅目,蚧总科,粉蚧科)	杨莲芳	陶苏门高	贾金山(404)
中国花天牛亚科一新纪录属及一新种记述(鞘翅目,天牛科)	郭建伟	王慧琴	林乃铨
贺兰山毛翅目两新种记述(毛翅目,幻沼石蛾科,沼石蛾科)	牛耕耘	魏美才(414)	
新疆弯翅缨小蜂属记述(膜翅目,缨小蜂科)	孙淑萍	盛茂领(419)	
中国叶蜂属(膜翅目,叶蜂科)二新种	张 君	蒋 珂	李丕鹏
中国登姬蜂属(膜翅目,姬蜂科)及一新种记述	侯 勉	饶定齐(423)	
中国小头蛇属(蛇亚目,游蛇科)的分类修订	董 路	张雁云(431)	
白鹇的种下分类探讨			
综 述			
中国头细蛾属昆虫(鳞翅目,细蛾科)与大戟科植物互利共生关系研究进展	胡冰冰	李后魂	石福臣(447)
简 报			
中国急流水螨属二新纪录种(蜱螨亚纲,急流水螨科)(英文)	张 平	郭建军	金道超(458)
中国雄尾螨二新纪录种记述(蜱螨亚纲,水螨群,雄尾螨科)(英文)	盛雅琴	金道超	郭建军(465)
中国长管蚜亚科四新纪录属及四新纪录种(半翅目,蚜科)	苏晓梅	姜立云	乔格侠(469)
细蛾科中国三新纪录属及四新纪录种记述(昆虫纲,鳞翅目)	白海艳	李后魂(477)	
平腹小蜂属中国三新纪录种(膜翅目,旋小蜂科)	胡婷玉	胡好远	肖 晖(482)
旋小蜂属中国四新纪录种(膜翅目,旋小蜂科)	胡婷玉	胡好远	肖 晖(486)
中国锤角细蜂科(膜翅目)一新纪录属及一新纪录种	刘经贤	许再福(490)	

封面照片(cover): 灰尖巴蜗牛 *Bradybaena (Acusta) ravida ravida* (Benson, 1842) (张 铿摄)

CONTENTS

Two new species of the genera <i>Araneus</i> and <i>Gibbaranea</i> from Liupan Mountain, China (Araneae, Araneidae) (in English)	GUO Sheng-Tao, ZHANG Feng, ZHU Ming-Sheng (213)
A new species of the genus <i>Bavia</i> (Araneae, Salticidae) from Yunnan Province, China (in English)	LEI He, PENG Xian-Jin (218)
Two new water mites species of the genus <i>Sperchon</i> Kramer, 1877 (Acari, Hydrachnidia, Sperchontidae) (in English)	ZHANG Xu, JIN Dao-Chao, GUO Jian-Jun (221)
A new species of <i>Filchnerella</i> Karny from China (Orthoptera, Acridoidea, Pamphagidae) (in English)	ZHANG Dao-Chuan, XIAO Jian-Tao, ZHI Yong-Chao (227)
A new species of the genus <i>Acrocyrtus</i> Yosii, 1959 (Collembola, Entomobryidae) from India (in English)	PAN Zhi-Xiang, CHATTERJEE Tapas, ZHANG Feng (231)
A new species of <i>Vitronura</i> Yosii, 1969 (Collembola, Neanuridae) from Northwestern China (in English)	JIANG Ji-Gang, YIN Wen-Ying (237)
<i>Paraberytus</i> Štáslák, a new record genus from China, with description of a new species (Hemiptera, Heteroptera, Berytidae, Berytini) (in English)	CAI Bo, DANG Kai, BU Wen-Jun (241)
A new species of <i>Rhopalopsola Shaanxiensis</i> species group (Plecoptera, Leuctridae) from China (in English)	LI Wei-Hai, KONG Fan-Bin, YANG Ding (246)
Six new species and twelve newly recorded species of Limacodidae from China (Lepidoptera, Zygaenoidea) (in English)	WU Chun-Sheng (249)
Study on the genus <i>Phaneroserphus</i> Pschorn-Walcher, 1958 (Hymenoptera, Proctotrupidae) from China (in English)	LIU Jing-Xian, HE Jun-Hua, XU Zai-Fu (257)
Two new species of <i>Macrophya</i> Dahlbom (Hymenoptera, Tenthredinidae) from Shennongjia, China (in English)	ZHAN Fu, WEI Mei-Cai (264)
Two new species of the genus <i>Mimesa</i> from Xinjiang, China (Hymenoptera, Apoidea, Crabronidae) (in English)	MA Li, CHEN Xue-Xin, LI Qiang (268)
Four new species of <i>Allognosta</i> from China (Diptera, Stratiomyidae) (in English)	LI Zhu, ZHANG Ting-Ting, YANG Ding (273)
Three new species of Beridinae from China (Diptera, Stratiomyidae) (in English)	QI Feng, ZHANG Ting-Ting, YANG Ding (278)
Two new species of <i>Actina</i> from Taiwan, China (Diptera, Stratiomyidae) (in English)	LI Zhu, ZHANG Ting-Ting, YANG Ding (282)
Two new species and three new records of <i>Campylocheta</i> from China (Diptera, Tachinidae) (in English)	ZHANG Chun-Tian, ZHOU Yuan-Ye (285)
One new species and three new records of Tachinidae from Liaoning, China (Insecta, Diptera) (in English)	ZHANG Chun-Tian, FU Chao (293)
Two new species of the genus <i>Phorbia</i> (Diptera, Anthomyiidae) from China (in English)	ZHANG Xu-Feng, FAN Zi-De, ZHU Wei-Bing (297)
A taxonomic study of the genus <i>Myospila</i> Rondani (Diptera, Muscidae) from Guizhou, China, descriptions of five new species belonging to the <i>M. Lauti</i> group (in English)	WEI Lian-Meng (301)
Three new species of the subgenus <i>Zeugodacus</i> from Yunnan, China (Diptera, Tephritidae) (in English)	YU Hui, BAI Yong-Hua, HE Wan-Zhong, LIU Zhong-Shan, YANG Ding (315)
A new species of subgenus <i>Zeugodacus</i> Hendel (Diptera, Tephritidae) from China (in English)	ZHANG Nan-Nan, CHEN Jia-Hua, GAO Shi-De (321)
A review of the genus <i>Mastacembelus</i> (Perciformes, Mastacembelidae) in China with descriptions of two new species and one new record (in English)	YANG Li-Ping, ZHOU Wei (325)
Study on the taxonomic status of <i>Agrammus agrammus</i> based on Mitochondrial gene fragments	REN Gui-Jing, LIU Qi, GAO Tian-Xiang, TAKASHI Yanagimoto (340)
Population genetic structure of <i>Parlousa astrigera</i> based on molecular evidence from mtDNA	LI Rui, YAN Xi-Zhong, LI Sheng-Cai (346)
Sequence and analysis of the mitochondrial genome of <i>Aphis glycyines</i> (Hemiptera, Aphididae)	GUO Wen-Ying, HUANG Xiao-Lei, REN Bing-Zhong, QIAO Ge-Xia (355)
Population genetics and biogeography of <i>Bufo melanostictus</i> (Anura, Bufonidae) in South China	QING Ning, MA Tian-Feng, LIANG Xiao-Xu, LIN Hung-Du, LU Wen-Hua, JAMES Lazell (366)
Comparative studies on the male genitalia of the genus <i>Polyura</i> (Lepidoptera, Nymphalidae, Charaxinae) from China	FANG Li-Jun (376)
A new species of the genus <i>Phaenusa</i> from Yunnan (Pulmonata, Stylommatophora, Clausiliidae)	TIAN Ming, FAN Biao, CHEN Yuan-Xiao (379)
A new species of the genus <i>Pupiniidius</i> (Moellendorff, 1901) from China (Pulmonata, Stylommatophora, Enidae)	REN Hong-Tao, SONG Ke-Lin, ZHOU Wei-Chuan (382)
A review of the genus <i>Euparattix</i> Hancock (Orthoptera, Tettigidae) from China with descriptions of two new species	ZHENG Zhe-Min, ZENG Hui-Hua, OU Xiao-Hong (390)
One new species of the genus <i>Omocestus</i> Bolivar (Orthoptera, Acrypteridae) from Xinjiang	ZHENG Zhe-Min, DONG Jia-Jia, XU Sheng-Quan (394)
<i>Paraporisacus guizhouensis</i> gen. nov. et sp. nov. of bamboo mealybug from China (Hemiptera, Coccoidea, Pseudococcidae)	LV Yuan, WU San-An (399)
A new species and a new record genus <i>Munantzoo</i> in Lepturinae (Coleoptera, Cerambycidae) from China	GAO Wen-Tao, MENG Qing-Fan, YAN Ming-Zhen (402)
Descriptions of two new caddisfly species from Helan Mountain, China (Trichoptera, Apantidae, Limnephilidae)	YANG Lian-Fang, TAO Su-Men-Gao, JIA Jin-Shan (406)
Two new species of the genus <i>Campoptera</i> Förster (Hymenoptera, Mymaridae) from Xinjiang	GUO Jian-Wei, WANG Hui-Qin, LIN Nai-Quan, HU Hong-Ying (413)
Two new species of <i>Tenthredo</i> (Hymenoptera, Tenthredinidae) from China	NIU Geng-Yun, WEI Mei-Cai (417)
The genus <i>Dentimachus</i> Heinrich (Hymenoptera, Ichneumonidae) in China with description of a new species	SUN Shu-Ping, SHENG Mao-Ling (421)
Taxonomic revisions on genus <i>Oligodon</i> of China (Serpentes, Colubridae)	ZHANG Jun, JIANG Ke, LI Pi-Peng, HOU Mian, RAO Ding-Qi (430)
Intraspecific taxonomy study of silver pheasant <i>Lophura nycthemera</i>	DONG Lu, ZHANG Yan-Yun (446)
Review	
Advance in the study of the mutualism between <i>Epicephala</i> moths (Lepidoptera, Gracillariidae) and euphorbiaceae plants in China	HU Bing-Bing, LI Hou-Hun, SHI Fu-Chen (457)
Scientific Notes	
Two newly recorded species of the genus <i>Torrenticola</i> Piersig (Acari, Hydrachnidia, Torrenticolidae) from China (in English)	ZHANG Ping, GUO Jian-Jun, JIN Dao-Chao (458)
Two newly recorded species of the genus <i>Arrenurus</i> Duges from China (Acari, Hydrachnidia, Arrenuridae) (in English)	SHENG Ya-Qin, JIN Dao-Chao, GUO Jian-Jun (465)
Four new record genera and four new record species in Macrosiphoninae from China (Hemiptera, Aphididae)	SU Xiao-Mei, JIANG Li-Yun, QIAO Ge-Xia (476)
Three newly recorded genera and four newly recorded species of Gracillariidae (Lepidoptera) in China	BAI Hai-Yan, LI Hou-Hun (481)
Three new record species of <i>Anastatus</i> from China (Hymenoptera, Eupelmidae)	HU Ting-Yu, HU Hao-Yuan, XIAO Hui (485)
Four new record species of <i>Eupelmus</i> from China (Hymenoptera, Eupelmidae)	HU Ting-Yu, HU Hao-Yuan, XIAO Hui (489)
A newly recorded genus and species of family Diapriidae (Hymenoptera) from China	LIU Jing-Xian, XU Zai-Fu (491)

第 36 卷 第 2 期
Vol. 36 No. 2

ISSN 1000-0739
CODEN DFXUEB
中国核心期刊

动物分类学报

动物分类学报

ACTA ZOOTAXONOMICA SINICA

Vol. 36 No. 2

Apr. 2011

ACTA ZOOTAXONOMICA SINICA



2
2011

ISSN 1000-0739



主办 中国科学院动物研究所 中国动物学会 中国昆虫学会
Sponsored by Institute of Zoology, Chinese Academy of Sciences,
China Zoological Society, Entomological Society of China